10-23 DNA enzyme

Figure 1

8-17 DNA enzyme

Figure 2

Linear Representation of XT-I DNA Enzyme

5' <u>TGG</u> GGG GAC TTG **GGC TAG CTA CAA CGA** GAC CTT <u>G</u> 3'

Figure 3

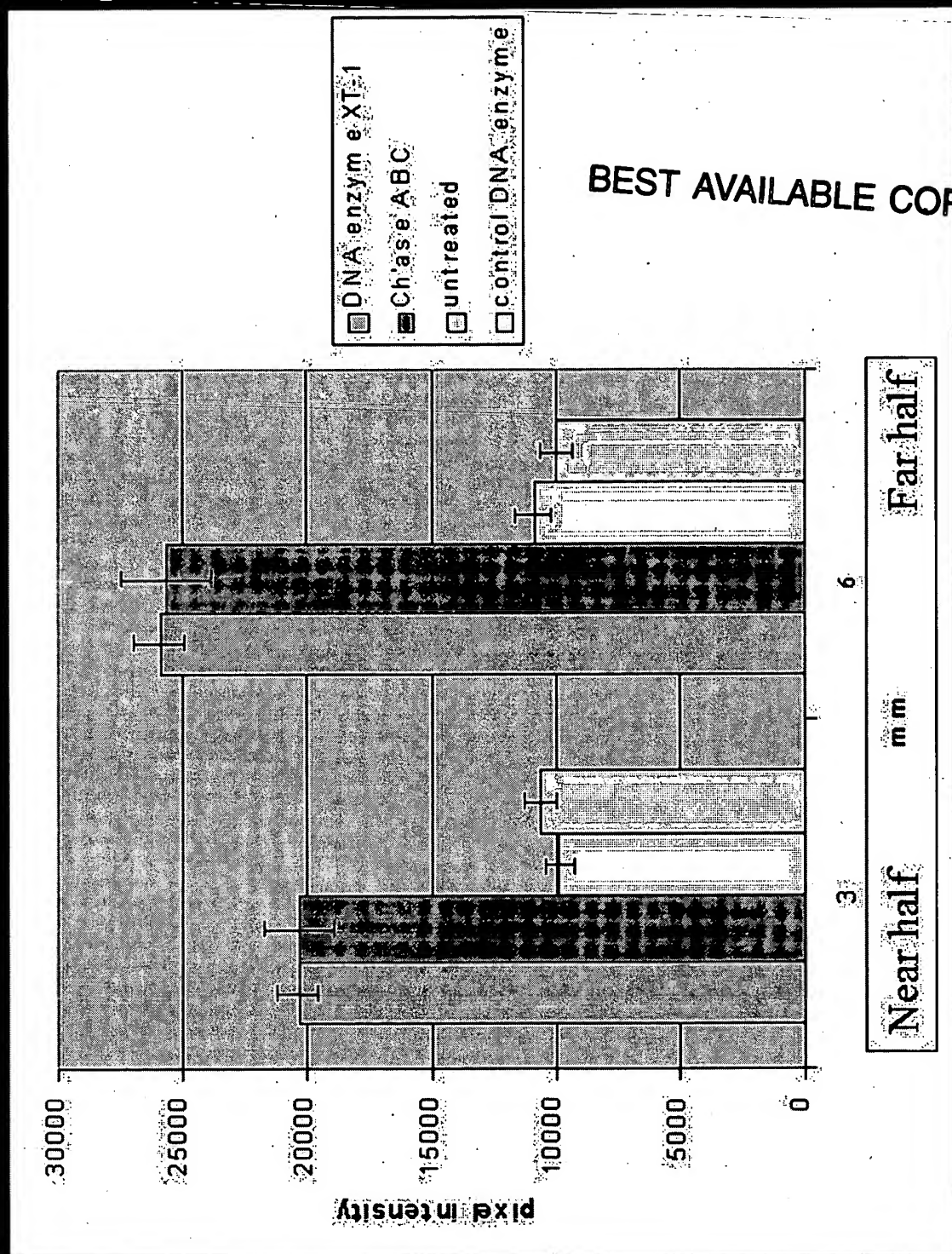Statistically evaluation of the Schwann cell movement into the astrocyte layer
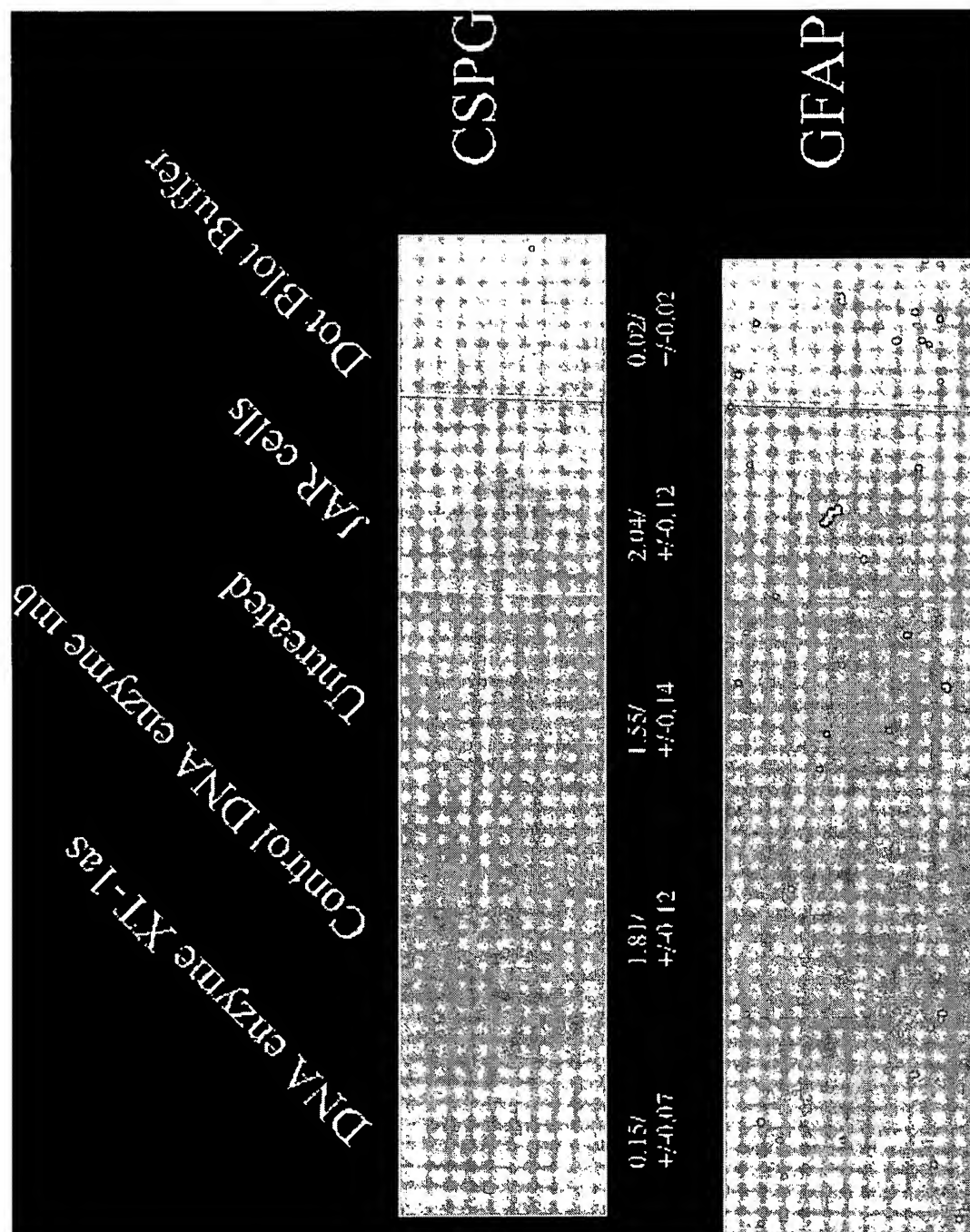
Figure 4

Figure 5

Interaction of DRGs with Schwann cells and astrocytes in the confrontation assay after different treatments

	Plated on	Both	SC only	AC only	Total #
DNAas XT-1	AC	28.92 %	1.20 %	69.88 %	5
Ch'ase ABC	AC	42.31 %	2.56 %	55.13 %	7
DNAmb XT-1	AC	61.72 %	2.47 %	35.80 %	5
untreated	AC	37.78 %	8.89 %	53.33 %	4
DNAas XT-1	SC	7.69%	92.31 %	0 %	2
Ch'ase ABC	SC	8.00 %	76.00 %	16.00	3
DNAmb XT-1	SC	7.69 %	87.18 %	5.13 %	4
untreated	SC	14.54 %	81.81 %	0 %	5

Figure 6

	nucleic acid sequence	amino acid sequence
Human XT-I	SEQ ID NO: 1	SEQ ID NO: 2
Human XT-II	SEQ ID NO: 3	SEQ ID NO: 4
Rat XT-I	SEQ ID NO: 5	SEQ ID NO: 6
Rat XT-II	SEQ ID NO: 7	SEQ ID NO: 8
Mouse XT-I	SEQ ID NO: 9	SEQ ID NO: 10
Mouse XT-II	SEQ ID NO: 11	SEQ ID NO: 12
Human acetylgalactosaminyltransferase	SEQ ID NO: 13	SEQ ID NO: 14
Human glucuronyltransferase	SEQ ID NO: 15	SEQ ID NO: 16
Human neurocan	SEQ ID NO: 17	SEQ ID NO: 18
Human NG2	SEQ ID NO: 19	SEQ ID NO: 20
Rat neurocan	SEQ ID NO: 21	SEQ ID NO: 22
Mouse neurocan	SEQ ID NO: 23	SEQ ID NO: 24
Rat NG2	SEQ ID NO: 25	SEQ ID NO: 26
Mouse NG2	SEQ ID NO: 27	SEQ ID NO: 28
Rat phosphacan	SEQ ID NO: 29	SEQ ID NO: 30
Mouse phosphacan	SEQ ID NO: 31	SEQ ID NO: 32
XT-I DNA enzyme	SEQ ID NO: 33	XXXXXXXXXXXXX
XT-I control DNA enzyme	SEQ ID NO: 34	
xylostransferase recognition sequence	XXXXXXXXXXXXX	SEQ ID NO: 35
xylostransferase recognition sequence	XXXXXXXXXXXXX	SEQ ID NO: 36
XT-I antisense oligonucleotide	SEQ ID NO: 37	XXXXXXXXXXXXX
XT-I/II antisense oligonucleotide	SEQ ID NO: 38	XXXXXXXXXXXXX
Human XT-I DNA enzyme	SEQ ID NO: 39	
XT-I control DNA enzyme	SEQ ID NO: 40	

Figure 7